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Abstract of EP1264549

A locking device clamps the turbine blades to the rod ends, and is operated by a tool (31) engaging e.g. a recess (30). Tool and recess are shaped such that the tool is able to reach it from the exterior of the drum, through one of its standard perforations (21). An Independent claim is included for the corresponding method of grape harvest separation. Preferred features: The recess (30) in the locking bolt is located near the end of the flat blade (18). It is prismatic, especially hexagonal (an Allen socket). The locking component is a long bolt (28) with recessed (30) head (29). The blade includes a base fitting (22) entering and fitting a bore (23) in the free end of the rod (15). A conical expansion nut (27) is drawn by the screwed end of the bolt into the base fitting, which has corresponding conical internal walls. A slot (24) included between the internal and external surfaces of the base fitting, extends over a predetermined distance, starting at the free end of the fitting. In addition to the base, the blade also has a body (19, 20) with central bore extending from the bolt head recess to the rod bore. The blade is further detailed. All blades of the turbine are similarly-fixed to their individual rods. The rods carrying blades are tubular.

